



EIGHT POINT WIND ENERGY CENTER

Case No. 16-F-0062

1001.12 Exhibit 12

Construction

Contents

Exhibit 12: Construction.....	1
12(a) Quality Assurance and Quality Control Plan	1
12(b) Company Official Statement	5
(1) Protection of Underground Facilities.....	5
(2) Pole Numbering and Marking Requirements.	5
12(c) Preliminary Plans to Avoid Interference with Existing Utility Systems	5
12(d) Procedures to Address Public Complaints	6

Appendices

- Appendix 12-1. Underground Utility Crossing Drawings and Details
- Appendix 12-2. Complaint Resolution Plan

Exhibit 12: Construction

12(a) Quality Assurance and Quality Control Plan

The Applicant will have a construction team on-site to handle materials, construction, and quality control. The Engineering, Procurement, and Construction (EPC) Contractor will manage local subcontractors to complete all aspects of construction. Throughout the construction phase, ongoing coordination will occur between the Project development and the construction teams. The Applicant will maintain a full-time, on-site construction manager to collaborate on a daily basis with the EPC Contractor. The on-site construction manager will help to coordinate all aspects of the proposed Project, including ongoing communication with local officials, citizens groups and landowners. The onsite construction manager will also maintain the following responsibilities including but not limited to:

- Safety & Environmental Performance
- Schedule, Cost & Quality Performance
- Project Plan of the Day (POD)
- Revenue Performance
- Monthly Management Meetings
- Overall Project Direction
- Administration of Contracts
- EPC Contractor Guidance and Quality Control

The Applicant's on-site construction manager will maintain full authority and responsibility for the EPC Contractor, all sub-contractors, and associated quality control measures. A breakdown of on-site responsibilities and quality assurance can be found in Appendix 5-5 of this Application.

The on-site construction manager will also maintain construction site safety under the Applicant's "ZERO Today" philosophy as described in Exhibit 18 of this Application. The Applicant will conform to the requirements of the Occupational Safety and Health Administration (OSHA), the Environmental Protection Agency (EPA), and other relevant regulations in New York State to ensure the safety of on-site personnel and the public. Safety training will be required for all personnel working on the Eight Point Wind Project.

In addition to the on-site construction manager, there will be a number of personnel with various accountabilities to ensure timely, safe, and efficient use of resources and labor. Each supporting personnel has specific responsibilities related to the Project. A detailed breakdown of personnel and their associated responsibilities can be found in Appendix 5-5 of this Application. Below is a list of each support personnel and a brief description of their accountabilities in relation to the Project:

- **Project Engineer-** Provides support and quality control to the engineering team for the Project. Communicates requests for information and engineering change notices to the construction team should there be any questions with field construction. Timely resolution of any engineering inquiry is imperative to continue to drive the Project schedule.

- **Project Controls-** Tracks cost controls, risks, and capital forecasting in relation to the Project. Monitors any updates to the Project schedule and reports on effects to the Project and its associated costs.
- **Operations Plant Lead and Start-up Operations Transition-** Typically brought in near the end of construction to ensure a quick, safe, and efficient transition from the construction team to the operations team. This ensures the end of construction and transition into commissioning activities are completed smoothly.
- **Civil/Environmental-** Interfacing with permitting to ensure all requirements have been met. Identification and resolution of deficiencies. Review and quality assurance of work in accordance with design standards. Oversight of compliance with environmental requirements.
- **Electrical-** Coordination and monitoring of electrical contractor's work. Monitoring and coordination of all electrical and ground testing. Assessment of deficiencies and their associated resolutions.
- **Wind Turbine Generator (WTG) Installation-** Maintain daily coordination of the erection and construction activities associated with the installation of each WTG. Duties include but are not limited to monitoring safety compliance, quality control, inspection, and assurance of mechanical completion.
- **Logistics and Materials-** Ensure the efficient delivery of Project equipment and materials on-site and in accordance with the Project schedule.
- **Site Coordinator-** Management of weekly performance metrics, logging of contractor documents and drawings, coordination with road contractor, and maintaining jobsite safety.
- **Site General Support-** Assist and support of all various support personnel.
- **Site Admin-** Management and transmittal of Project documents. Assistance with the business management and administrative duties of the Project Manager and other associated support staff.

A copy of a sample EPC Contractor's Quality Assurance and Quality Control Plan (QAQC Plan) can be found in Appendix 5-6 of this Application. The EPC Contractor will maintain all requirements or similar requirements to those listed in this document, as well as abiding by the standards of the Applicant's development and construction personnel. The EPC Contractor will provide a QAQC Plan with the requirements or very similar requirements listed in this section.

Accountabilities and Oversight

The Applicant and all of its contractors and subcontractors are required to maintain the highest quality controls during the development, construction and operation of the Project. The Applicant will have a team of personnel in place as listed above and in Appendix 5-5 to maintain the daily operation and quality of the construction of the Project. Additionally, the EPC Contractor will maintain documentation, conformance, inspection, and testing of all work completed on-site to ensure that all work has been complete in accordance with Project specifications. The comprehensive QAQC Plan through the EPC Contractor in conjunction with the quality oversight of the Applicant's team of personnel will ensure that all work adheres to the highest quality and safety metrics.

Project Organization

The EPC Contractor will provide an effective organizational structure to ensure a responsible construction team with a commitment to quality and safety. This effective structure will contain appropriate personnel to facilitate the construction of the Project including managers, engineers, superintendents, inspectors, foremen, and quality personnel. Each employee has the responsibility to implement all quality processes in every aspect of the construction process. All non-conforming work with the established level of quality and Project specifications will be corrected in an appropriate manner.

Process Controls

Process controls ensure that work is completed in a safe, consistent, and quality manner. An efficient use of Project Controls such as project meeting, daily planning meetings, and monthly management meetings help to address all responsibilities and ensure the timely construction of the Project. The topics of discussion of these meetings range from daily construction activities to safety and emergency agendas to the resolution of on-site construction challenges.

Design Control

All plans and drawings shall be thoroughly reviewed to ensure the completeness of construction. The engineering team shall clarify any instances of construction that require further information for completion. All design deviations must first be accepted and approved by the Engineer of Record.

Document Control

All Project documents will be collected, stored, transmitted, and submitted in a controlled and defined manner. Project closeout documentation will be provided to the Applicant as a Project deliverable. Specific reporting and timelines will be established between the Applicant and the EPC Contractor.

Training

All internal and external trainings for on-site personnel to ensure the consistency and completeness of all job site training efforts. Training records shall be kept for all employees. All employees must have safety training and abide by all regulations as set forth by the Occupational Safety and Health Administration (OSHA) and all other relevant New York State Safety regulations.

Subcontractor Evaluations

All subcontractors will be assessed on various factors including performance, safety, capability, and quality of work. This continual information gathering can help to assess the subcontractor's suitability for present and future work. All subcontractors are subject to audit and performance review at any time in the development and construction process.

Material Management

All materials delivered or supplied for the use of construction of the Project will be in quality compliance of manufacturer and Project specifications. The handling and storage of materials shall be in accordance with manufacturer recommendations to ensure that there is no compromise in the quality of the material.

Inspection and Testing

Inspections and testing shall be completed in a controlled manner in accordance with manufacturer, engineering, and Project specifications. Both internal and external quality checklists will be established and used as well as the potential for third party testing contractors. All inspection and testing documentation will be generated and stored to assure the quality of all materials, systems, and Project components.

Calibration

The accuracy of tooling and equipment is absolutely necessary to ensure that all work is performed within technical requirements. Calibrations will be complete in accordance with applicable standards and shall be documented to maintain a record of calibration results.

Nonconformance

All materials, work, and products are subject to inspection and testing to determine the level of conformance with manufacturer, engineering, and Project specifications. All non-conforming Project components shall be subject to rejection, repair, reworking, and replacement. When required an evaluation of the resolution will be decided collaboratively with the EPC Contractor and the Applicant.

Auditing

Quality audits should be performed to measure the effective application of the quality program and to drive continuous improvement efforts. Any findings in the audit process shall be used to drive efficiency and further quality control efforts as the Project progresses.

Project Delivery

The Project shall be constructed according to all plans, designs, manufacturer specifications, engineering standards, contract standards, and expectations. Constant alignment meetings with the Applicant and the EPC Contractor shall take place to assure that all expectations are being met. Additionally, testing and inspections will assure that quality standards and expectations are being met. The EPC Contractor shall deliver the Project components taking every precaution to ensure that all employees and the general public stay safe through the duration of construction. Public safety remains a high priority concern for the Applicant.

Before the proposed Project becomes fully operational, the O&M staff will be integrated into the construction phase. The construction manager and the O&M staff manager will work together continuously to ensure a smooth transition from construction through wind farm commissioning and, finally, operations.

12(b) Company Official Statement

(1) Protection of Underground Facilities

The Applicant and its contractors will abide by the requirements set forth in Public Service Law implemented by 16 NYCRR Part 753 to protect underground facilities in order to assure public safety and to prevent damage to public and private property.

(2) Pole Numbering and Marking Requirements.

The Applicant and its contractors will comply with pole numbering and marking requirements set forth in Public Service Law implemented by 16 NYCRR Part 217.

12(c) Preliminary Plans to Avoid Interference with Existing Utility Systems

The Applicant is compiling and consolidating utility information within the Project Area to verify ownership of the utilities and to verify if the utilities are existing/operating or abandoned. All existing/operating utility systems both above and below ground are being identified and designated as electric, communication, natural gas, etc. This is being completed through the use of a surveying contractor in collaboration with local utilities, Dig Safely New York, and participating landowners of the Project. The Applicant and/or EPC Contractor will submit a request for information with Dig Safely New York to receive all documented buried utilities within the Project Area. Safety of all on-site personnel and the prevention of damages to existing/operating utilities is a top priority of the Applicant.

Upon completion of the surveys and utility locates for all utilities in the Project Area, the Applicant will collaborate with all utilities located in the Project Area to ensure minimal interference. Measures to minimize interference where avoidance is not possible include directional boring instead of trenching, relocation of Project components (i.e. relocating collection line to avoid interference with a well), and crossing of existing utilities at 90 degree angles. When necessary, the Applicant will establish a crossing agreement for any permanent crossings of Project components with existing utilities. Crossing agreements will be negotiated and established as a last resort to avoiding interference to existing utilities. Below is a list of typical setbacks of WTGs from relevant utility infrastructure:

- Transmission Lines: 1.5 times turbine height
- Natural Gas Pipelines: 200 feet
- Telecommunications Lines: 200 feet
- Wells: 1.1 times turbine height

The Applicant will be unable to entirely avoid interference with existing utility infrastructure, however, the Applicant will work to design and construct the Project safely and without interference to existing/operating utility components. The Applicant expects to have permanent crossings with

distribution lines, fiber optic lines, and natural gas and/or oil pipelines. Typical cross sections of these crossings can be found in Appendix 12-1. Each permanent crossing will be subject to site specific engineering and construction requirements. The Applicant will adhere to all requirements set forth by Dig Safely New York, all applicable engineering codes and guidelines associated with each permanent utility crossing, and will work with the utility owner's to ensure that there is minimal interference with existing utilities.

12(d) Procedures to Address Public Complaints

The Applicant has generated a formal Complaint Resolution Plan that will address all public complaints during the construction and operation of the Eight Point Wind Energy Center Project. For noise specific complaints a Compliance Sound Monitoring and Complaint Response Protocol was generated. More information regarding noise complaints can be found in Exhibit 19. Listed in the Complaint Resolution Plan are specific procedures for where to submit a complaint and the information required to properly resolve the complaint. A complaint form can be submitted by mail or dropped off in person at the Project's local office, O&M building, and/or temporary construction office. The Applicant will keep a thorough log of each complaint and its associated resolution. The complaint log will be maintained by the Applicant and, upon request, can be sent to the NYS DPS within seven business days.

A Project Representative will make efforts to respond to all reasonable inquiries with 72 hours (during normal business hours) of the receipt of an inquiry. A record of the steps taken to resolve each complaint shall be kept by the Applicant. This record will include complaints received, resolution of said complaints, and any unresolved complaints.

No less than two weeks prior to the commencement of construction, the Applicant will publish a summary of the Complaint Resolution Plan in newspapers, including local community and general circulation newspapers, as will serve substantially to inform the public of such Complaint Resolution Plan. A list of these newspapers have been established and identified in the Applicant's PIP. The Plan will be provided to the Greenwood Township and the West Union Township Town Boards. The Plan will also be posted on the Applicant's website and will be available to the public at the Applicant's local office, temporary construction offices and at the O&M building.

In the case that a resolution cannot be delivered within 60 days, a timeline and measures to be taken will be provided to the complainant. The complaint resolution process is limited to reasonable and objectively practical complaints.

A copy of the Complaint Resolution Plan can be found in Appendix 12-2 of this Application. A copy of the Compliance Sound Monitoring and Complaint Response Protocol can be found in Appendix 19-2. The plan and protocol provide further details in addressing and resolving public complaints throughout the construction and operation of the Project.